DC E610 Digital Camera
User Manual

Welcome

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- Do not use your camera in the following environmental range: temperature below 0°C or above 40°C.
- Do not use or store your camera in the environments listed below:
  - Direct sunlight
  - High and dusty places
  - Next to an air conditioner, electric heater or other heat sources
  - In a closed car that is in direct sunlight
  - Unstable locations
- If your camera becomes wet, wipe it with a dry cloth as soon as possible.
- Salt or seawater may cause severe camera damage.
- Do not use solvents, such as alcohol, to clean your camera.
- If the lens is dirty, use a lens brush or soft cloth to clean the lens. Do not touch the lens with your fingers.
- To prevent electric shock, do not attempt to disassemble or repair your camera by yourself.
- Water may cause a fire or electric shock. Therefore, store your camera in a dry place.
- Do not use your camera outdoors when it is raining or snowing.
- Do not use your camera in or near water.
- If a foreign substance or water gets in your camera, please turn the power off immediately and disconnect the batteries and the power adapter. Remove the foreign substance or water, and send it to the maintenance center.
- Transfer the data to the computer as soon as possible to avoid losing your images and/or video clips.

Disposal of Waste Electrical and Electronic Equipment by users in private households in the European Union.

This symbol on the product or on the packaging indicates that this can not be disposed of as household waste. You must dispose of your waste equipment by handing it over to the applicable take-back scheme for the recycling of electrical and electronic equipment. For more information about recycling of this equipment, please contact your city office, the shop where you purchased the equipment or your household waste disposal service. The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.

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Statement of FCC compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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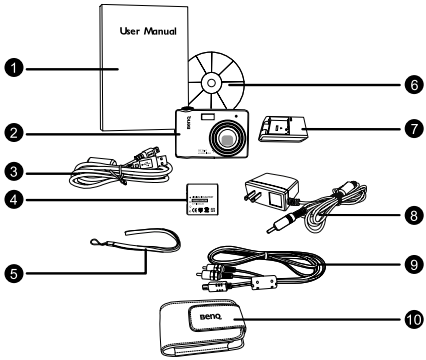
1 Touring Your Camera

1.1 Checking the Package Contents

Carefully unpack your kit box and ensure that you have the following items.

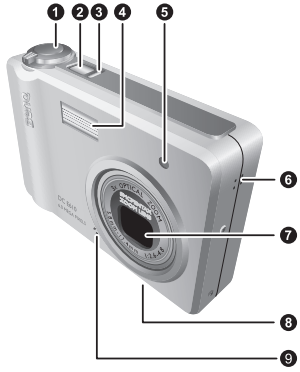


1. User Manual
2. Camera
3. USB cable
4. Lithium-ion battery
5. Hand strap
6. Software CD-ROM
7. Battery charger (DLC-02)
8. AC power adapter
9. AV cable
10. Leather case

If any of the items are missing or appear to be damaged, contact your dealer. Save the packaging in case you need to ship your camera for service.

1.2 Camera Components

1.2.1 Front View



1. Shutter button
2. Power button
3. Status LED indicator
4. Built-in flash
5. Self-timer LED indicator
6. Speaker
7. Lens/Lens cover
8. Tripod mount
9. Microphone

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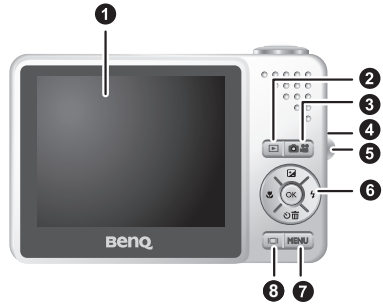
1.2.2 Rear View

1. LCD monitor
2. Inst. Play button
3. Inst. REC button
4. USB / AV port
5. Strap eyelet
6. Navigator -- four-way and **OK** buttons
7. Menu button
8. DISP button



1.2.3 LED Indicators

Indicators	State	Description
Status LED indicator	Solid green	• The camera is powered up and ready to be used. • The USB connection is in progress. • The camera is in the power saving mode.
	Blinking green	• The camera is processing or accessing data.
	Blinking orange	• There are error or warning messages.
Self-timer LED indicator	Blinking red	• The self-timer function is activated.

• The LCD on the digital camera is manufactured with sophisticated technology; however, the display may have some light spots or show unusual colors. This is normal and does not indicate display malfunction, nor will this affect the pictures you take with the camera.

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2 Preparing Your Camera for Use

2.1 Installing the Battery

We highly recommend that you use only the specified rechargeable lithium-ion battery for your camera. Make sure that the power of the camera is off before inserting or removing the battery.

To insert the battery:

1. Open the battery/SD memory card cover (**A**).
2. Insert the battery in the correct direction shown (**B**).
3. Push the battery all the way down, until the battery lock lever clicks into place (**C**).
4. Close the battery/SD memory card cover (**D**).

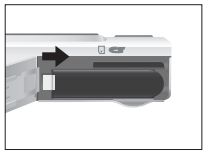
To remove the battery:

1. Open the battery/SD memory card cover.
2. Release the battery lock lever.
3. When the battery has come out a little, gently pull it out the rest of the way.

A

B

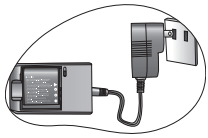
C



D

2.2 Charging the Battery

The battery charge status affects the performance of the camera. To maximize the performance and life of the battery, it is recommended that you fully charge the battery using the specified charger set (charger and AC power adapter), and then fully discharge it through the normal use at least one time. Make sure that the power of the camera is off before inserting the battery.



1. Insert the battery into the charger as shown in the illustration.
2. Connect one end of the AC power adapter to the charger.
3. Connect the other end of the AC power adapter to a wall outlet.
4. When the battery is being charged, the charger LED indicator lights up in red. When the battery is fully charged, it turns into green.
   The length of the charging time depends on the ambient temperature and the status of the battery.

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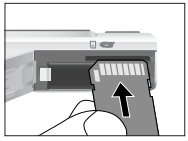
- **The camera must be used with the specified charger set. Damage caused by the use of an incorrect charger set is not covered under the warranty. Always make sure that the camera is off before removing the battery.**
- **The battery may be warm after being charged or used. This is normal and not a malfunction.**
- **When using the camera in cold environments, keep the camera and its battery warm by holding it inside your jacket or other warm protective environment.**

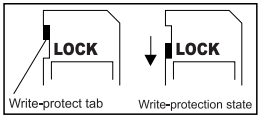
2.3 Inserting and Removing an SD Memory Card

The camera is equipped with 18MB internal memory, allowing you to record video clips, capture images, or make voice files in the camera. You can also expand the memory capacity by using an optional SD (Secure Digital) memory card to store more files.

1. Always make sure the camera is turned off before inserting or removing a memory card.
2. Insert an SD memory card in the correct direction, as shown in the illustration.
3. Close the battery/SD memory card cover.
   To remove the SD memory card, make sure the camera is turned off. Press lightly on the edge of the memory card and it will eject.



- **Be sure to format the SD memory card with this camera before the initial use.**
- **To prevent valuable data from being accidentally erased from an SD memory card, you can slide the write-protect tab (on the side of the SD memory card) to "LOCK".**



- **To save, edit, or erase data on an SD memory card, you must unlock the card.**
- **While formatting the internal memory, do not insert a memory card into the camera. Otherwise, the memory card is formatted instead of the camera's internal memory.**
- **Formatting is an irreversible action and data cannot be recovered at a later time. Back up your data before formatting.**
- **An SD memory card having read or write problems may not be properly formatted.**

2.4 Setting the Date and Time

Before using your camera for the first time, please set the date and time. For more information, refer to the table in 3.4.1 "Setup Mode Menu" on page 22.

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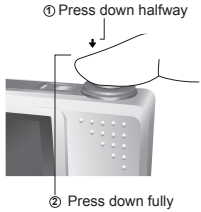
3 Using the Camera

3.1 Snapshot Mode

3.1.1 Getting started with capturing images

1. Press the [⏻] button for more than one second to turn on the camera.
2. Compose your image in the LCD monitor under Snapshot Mode.
3. Press the shutter button down halfway (**1**), and then press it down fully (**2**).
   - Pressing the shutter button down halfway automatically focuses and adjusts the exposure.
   - The focus area frame turns green when the camera is focused and the exposure is determined.
   - When the focus or exposure is not suitable, the frame of the focus area turns red.



- **To review the last captured image, press the [▶] button. Press the [📷] button to return to Snapshot Mode.**
- **The LCD monitor darkens in strong sunlight or bright light. This is not a malfunction.**
- **To prevent your images from being blurred while pressing the shutter button, always hold the camera steady. This is especially important when you are shooting under low lighting conditions, under which your camera may reduce the shutter speed to ensure your images are properly exposed.**
- **Pressing the [DISP] button changes the LCD display in the sequence of: OSD Normal → Detailed Info. → Info. Off.**
- **If QuickView is set to "On", the captured image will be displayed while the image is being written onto the memory.**

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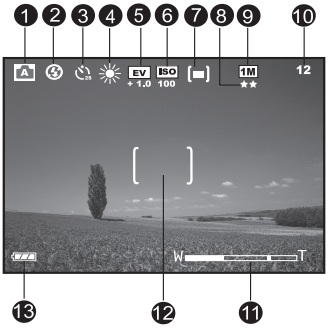
3.1.2 Snapshot Mode LCD Monitor Information



1. Shooting Mode
   - [ ] Auto
   - [ ] Manual
   - [ ] Portrait
   - [ ] Landscape
   - [ ] Night Scene
   - [ ] Sport
   - [ ] Back Light
2. Flash mode
   - [ ] Flash Auto
   - [ ] Flash On
   - [ ] Flash Off
   - [ ] Red Eye
   - [ ] Slow Sync
3. Self-timer icon (if used)
   - [ ] Self-timer (2s)
   - [ ] Self-timer (10s)
   - [ ] Interval Shoot
   - [ ] Burst
4. White Balance (if chosen [Detailed Info] display)
   - [ ] Auto WB
   - [ ] Sunny
   - [ ] Cloudy
   - [ ] Tungsten
   - [ ] Fluorescent
5. EV (Exposure Value)
   -0.3, -0.6, -1.0, -1.3, -1.6, -2.0, +0.3, +0.6, +1.0, +1.3, +1.6, +2.0
6. ISO
   - [ ] ISO Auto
   - [ ] ISO 80
   - [ ] ISO 160
   - [ ] ISO 320
   - [ ] ISO 400
7. Metering
   - [ ] Center Avg.
   - [ ] Spot
   - [ ] Matrix
8. Image Quality
   - [ ] Fine
   - [ ] Normal
9. Resolution (Image size)
   - [ ] 2816 x 2112
   - [ ] 2048 x 1536
   - [ ] 1600 x 1200
   - [ ] 1280 x 960
   - [ ] 640 x 480
10. Available number of shots
11. zoom status
12. AF Area
13. Battery power level indicator
    - [ ] Full battery power
    - [ ] Medium battery power
    - [ ] Low battery power
    - [ ] Virtually no battery power

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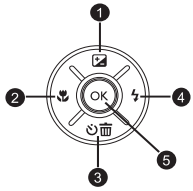
3.1.3 Changing Camera Settings



Camera settings can be changed with the following four-way and **OK** buttons.

1. **Up/EV**:
   - Scrolls upwards in menus.
   - Enables you to adjust the EV settings.
2. **Left/Focus**:
   - Scrolls left in menus.
   - Enables you to choose the appropriate focus settings.
3. **Down/Self-Timer/Interval shoot/Burst shoot/Delete**
   - Scrolls downwards in menus.
   - Toggles the self-timer settings.
   - Triggers Interval shoot and Burst shoot functions.
   - Delete images, video clips or voice memos.
4. **Right/Flash**:
   - Scrolls right in menus.
   - Enables you to choose the appropriate flash settings.
5. **OK**: Confirms the chosen setting.

3.1.4 Setting Shooting Mode

You can set Shooting Mode for capturing images according to the following steps.

1. In Snapshot Mode, press the [MENU] button. Shooting Mode menu is displayed.
2. Use the [ ]/[ ] buttons to select the desired mode, and then press the **OK** button to confirm.

The table below will help you choose appropriate Shooting Mode:

Icon	Shooting Mode	Description
[ ]	Auto	Select this mode when you want to leave the settings up to the camera to capture images with ease.
[ ]	Manual	Select this mode when you want to adjust the settings of White Balance, Metering, and ISO. These menus are only available in Manual mode.
[ ]	Portrait	Select this mode when you want to capture an image that makes the person stand out against a defocused (blurred) background. The flash is fixed at [ ], which is effective in reducing the red-eye phenomenon.
[ ]	Landscape	Select this mode to enhance the color saturation in mountains, forests and other landscape scenery or to take portraits that feature a landmark in the background. The flash is fixed at [ ].
[ ]	Night Scene	Select this mode when you want to take a photograph with an evening or night scene background. The flash is fixed at [ ].

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Icon	Shooting Mode	Description
[ ]	Sport	Select this mode when you want to capture fast-moving subjects. The flash is fixed at [ ].
[ ]	Back Light	Select this mode while capturing images with the light coming from behind the subject. The flash is fixed at [ ].

- **The description of each Shooting Mode serves as a general guide for your convenience. Set the digital still camera to suit your preferences.**
- **Shooting Mode can be set only in Snapshot Mode.**

3.1.5 Using the Flash

The flash is designed to function automatically when lighting conditions warrant the use of flash. You can capture an image using a flash mode suitable to your circumstances. If you change the flash mode, the camera will retain that setting even if the camera is turned off.

1. In Snapshot Mode, Flash Auto [ ] is activated by default.
2. Toggle the [ ] button to select other flash modes, if desired.
3. Compose your image and press the shutter button.

The table below will help you choose the appropriate flash mode.

Icon	Flash	Description
[ ]	Flash Auto	The flash fires automatically according to the photographic conditions.
[ ]	Flash On	The flash will always fire regardless of the surrounding brightness. Select this mode for capturing images with high contrast (backlighting) and deep shadows.
[ ]	Flash Off	The flash will not fire. Select this mode in a place where flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash.
[ ]	Red Eye	This mode can reduce the red-eye phenomenon when you want to capture natural-looking images of people and animals in low-light conditions. When capturing images, the red-eye phenomenon can be reduced by asking the subject (person) to look at the camera lens or get as close to the camera as possible.
[ ]	Slow Sync	This mode opens the shutter for a longer than normal period and fires the flash just before it closes. Select this mode for illuminating a foreground subject yet allowing a darker background to be rendered as well. It is appropriate for capturing the night scene with people in the foreground.

- **The flash cannot be used in Movie Mode.**
- **If you select Slow Sync, to avoid blur, using a tripod and photographing static subjects are recommended.**

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3.1.6 Using the Self-timer

The self-timer can be set in Snapshot Mode. This feature is useful for situations when you may wish to be part of the picture.

1. Secure the camera to a tripod or place it on a stable surface.
2. In Snapshot Mode, toggle the [ ] button to select the desired self-timer mode.

Icon	Self-timer	Description
[ ]	Self-timer (2s)	The camera automatically takes a picture after two seconds delay.
[ ]	Self-timer (10s)	The camera automatically takes a picture after ten seconds delay.
[ ]	Interval Shoot	The camera automatically takes a picture every preset time till media full or battery empty.
[ ]	Burst Shoot	The camera automatically activates a three-shot burst when the shutter button is pressed.

3. Compose your image and press the shutter button.
   - The self-timer function is activated and the countdown status is displayed on the LCD monitor.
   - The self-timer LED indicator flashes and the image will be captured after the preset time has elapsed.
   - To cancel the self-timer at any time, press the [MENU] button.

☞ **• The self-timer setting is automatically turned off after an image is captured.**

3.1.7 Using the Burst

This mode is used for continuous shooting. Pictures are taken continuously while the shutter button is pressed.

1. In Snapshot Mode, toggle the [ ] button until the Burst icon [ ] is displayed on the LCD monitor.
2. Press the shutter button halfway to lock the focus.
3. Press the shutter button all the way down to shoot.

☞ **• In Burst mode, the flash mode will be set to [Flash Off] automatically.**

3.1.8 Using the Optical Zoom

Zoom photography allows you to capture images magnified up to 3 times or wide-angle photography depending on the distance up to the subject. You can further enlarge the center of the screen and capture images using the digital zoom.

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1. Press the [ ] button to enter Snapshot Mode or Movie Mode.
2. Compose the image with the zoom key.
   - Adjusting the key to the right zooms in on the subject, and enlarges the subject on the LCD monitor.
   - Adjusting the key to the left provides a wide angle image.
   - The lens position moves according to the zoom setting only in optical zoom period.
3. Press the shutter button down halfway to set the focus and exposure, and then press it down fully to capture the image.

• Zoom function cannot be used while a video clip is being recorded. Set the zoom before you start recording.

3.1.9 Using the Digital Zoom

Using a combination of 3X optical zoom and 4X digital zoom permits zoom photography up to 12X to suit the subject and the distance. Digital zoom is a useful feature; however, the more an image is enlarged (zoomed), the more pixelated (grainy) the image will appear.

3.1.10 Changing the Focus

1. In Snapshot Mode, toggle the [ ] button to switch between the following modes.

Icon	Focus	Description
	Normal (AF)	Normal Auto Focus (50 cm to infinity).
[ ]	Macro	Macro Auto Focus: 6 cm (Zoom 4). The flash is fixed at [ ].
[PF]	Pan Focus (PF)	This option can decrease the time of focusing and enhance the efficiency of capturing images. It helps you capture fast-moving subjects or subjects in the dark easily.

2. Compose the image.
3. Press the shutter down halfway, and then press it down fully.

3.1.11 Adjusting the EV

The EV (exposure value) enables you to lighten or darken an image. Use this setting when the brightness between the subject and the background is not balanced, or when the subject occupies only a small part of the photograph.

1. In Snapshot Mode, make sure Shooting Mode is set to [Auto] or [Manual]. For more information on setting Shooting Mode, refer to 3.1.4 “Setting Shooting Mode” on page 9.
2. Press the [ ] button. The EV adjustment bar will be displayed on the bottom of the LCD monitor.
3. By default, the EV is 0. It can be adjusted between -2.0 to +2.0.
   - To increase the EV bias, press the [ ] button and then press the **OK** button.

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- To decrease the EV bias, press the [ ] button and then press the **OK** button.

3.1.12 Snapshot Mode Menu Settings

3.1.12.1 Snapshot Mode Menu

1. In Snapshot Mode, press the [MENU] button to access the menu, and then use the [ ] / [ ] buttons to select the menu settings you want to change.
2. Use the [ ]/[ ] buttons to select the desired item in the menu, and then press the **OK** button.
3. To exit from the menu, press the [MENU] button.

Icon	Item	Option	Functional Description
[ ]	Resolution	[6M] 2816 x 2112 [3M] 2048 x 1536 [2M] 1600 x 1200 [1M] 1280 x 960 [VGA] 640 x 480	Sets the size of the image that will be captured. **Higher resolution images require more memory. If you wish to store more images in a limited amount of memory, use a lower image size.**
[ ]	Image Quality	[★★] Fine [★] Normal	Sets the quality (compression rate) at which the image is captured.
[ ]	AF Area	[ ] Spot [ ] Multi	Determines how the focus area is selected. You can choose center-spot focus mode or 5-point focus mode.
[ ]	Interval Shoot		Captures images according to the settings specified. For details, see 3.1.12.2 “Using the Interval Shoot” on page 14.
[ ]	Date Stamp	[ON] [OFF]	Prints the current date on the bottom right corner of images captured. This function must be activated before the image is captured. For more information on setting the date and time or the date format, refer to the table of 3.4 “Setup Mode” on page 21.
[ ]	White Balance (Only available in Manual mode)	[ ] Auto WB [ ] Sunny [ ] Cloudy [ ] Tungsten [ ] Fluorescent	Sets the white balance when capturing images under specific lighting conditions. – Auto WB: Automatically adjust the white balance. – Sunny: Suitable for bright daylight conditions. – Cloudy: Suitable for cloudy, twilight, or shady conditions. – Tungsten: Suitable for subjects lit by tungsten (incandescent) lighting. – Fluorescent: Suitable for subjects lit by fluorescent lighting.

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Icon	Item	Option	Functional Description
[ ]	Metering (Only available in Manual mode)	[ ] Center Avg. [ ] Spot [ ] Matrix	Adjusts the region of the subject or frame on which the camera measures light. – Center Avg.: The camera metering is set for the average brightness of objects in the center region of the frame. – Spot: The camera metering is set for the brightness of the object at the center of the frame. – Matrix: The camera determines the exposure by metering only the objects in the center spot. Use this to obtain correct exposure on a small part of the image.
[ ]	Effect	[ ] Normal [ ] B & W [ ] Sepia [ ] Vivid	Applies a tone or color to your pictures to create an artistic effect. – Normal: Standard RGB color settings suitable for general photography. – B & W: Black and white pictures with shades of grey. – Sepia: Produces a warm, old-fashioned style of pictures, in which the colors are more brown and orange. – Vivid: Produces sharper and more vibrant colors.
[ ]	ISO (Only available in Manual mode)	[ ] ISO Auto [ ] ISO 80 [ ] ISO 160 [ ] ISO 320 [ ] ISO 400	Configures the camera's sensitivity to light. – ISO Auto: Automatically sets the ISO value. – ISO 80: Equivalent to color ISO 80 film. Use for outdoor photography in bright sunlight. – ISO 160: Equivalent to color ISO 160 film. Use for outdoor or brightly lit indoor photography. – ISO 320: Equivalent to color ISO 320 film. – ISO 400: Equivalent to color ISO 400 film. Use for fast-moving subjects.

- **Setting the White Balance**

  The human eye adapts to changes in light so that white objects still appear white even when the light changes. With a digital camera, however, the color of the subject is influenced by the color of the light surrounding it. This color adjustment is called "white balance adjustment". This setting allows you to set the white balance when capturing images under specific lighting conditions.

3.1.12.2 Using the Interval Shoot

The camera provides interval image capturing based on the setting. This mode is available in the self-timer photography. You may specify the interval and counts of images captured.

To adjust Interval Shoot settings:

1. In Snapshot Mode, select Interval Shoot menu.
2. Use the [ ]/[ ] buttons to toggle between Interval and Count, and then press the **OK** button.
   - Interval:
     [15 sec.]: The recording interval is 15 seconds.
     [1 min.]: The recording interval is 1 minute.
     [3 min.]: The recording interval is 3 minutes.
     [10 min.]: The recording interval is 10 minutes.
     [60 min.]: The recording interval is 60 minutes.

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- Count: 2 ~ 99 counts (specifying how many shots can be taken).

3. Use the [ ]/[ ] buttons to adjust the settings, and then press the **OK** button.

To capture images with Interval Shoot function:

1. In Snapshot Mode, toggle the [ ] button to select Interval Shoot mode.
2. Press the shutter button to start. Images will be captured according to the preset Interval and Count.
3. If you wish to stop, press the shutter button.

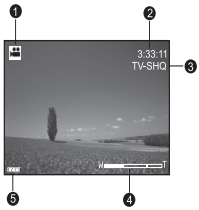
3.2 Movie Mode

With the specially designed pause function of the camera, you can pause your recording session whenever you want to best suit your need. Experience this feature with the following easy steps.

1. Toggle the [ ] button to enter Movie Mode. The video clip recording screen is displayed.
2. Frame the subject in the LCD screen with the zoom button, if desired.
   - Optical zoom should be set before recording.
   - Optical zoom cannot be used during recording.
3. Press the shutter button to start recording.
   - To stop the recording session, press the shutter button again.
   - To pause the recording session, press the **OK** button. To resume, press the **OK** button again.

- **The flash cannot be used in Movie Mode.**
- **EV compensation cannot be set or activated in Movie Mode.**
- **While a video is being recorded to an SD memory card, neither open the battery/SD memory card cover, nor remove the battery/SD memory card. Doing so might damage the SD memory card or destroy the data.**
- **The length of the recording depends on the remaining capacity of your memory card or the camera's built-in memory. The remaining time is displayed on the upper right corner of the LCD monitor.**

3.2.1 Movie Mode LCD Monitor Information



1. Movie Mode
2. Available recording time
3. Movie Quality
4. Zoom status
5. Battery power level indicator

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3.2.2 Movie Mode Menu Settings

3.2.2.1 Movie Mode Menu

1. In Movie Mode, press the [MENU] button to access the menu, and then use the [ ]/[ ] buttons to select the menu settings you want to change.
2. Use the [ ]/[ ] buttons to select the desired item in the menu, and then press the **OK** button.
3. To exit from the menu, press the [MENU] button.

Icon	Item	Option	Functional Description
[ ]	Movie Quality	[TV-SHQ] TV-SHQ [TV-HQ] TV-HQ [TV-S] TV-S [Web-HQ] Web-HQ [Web-S] Web-S	Sets the quality and size of the video clip that will be recorded. – TV-SHQ: 640 x 480 Fine – TV-HQ: 640 x 480 – TV-S: 320 x 240 Fine – Web-HQ: 320 x 240 – Web-S: 160 x 128 ☞ **"SHQ" refers to "super high quality". "HQ" refers to "high quality". "S" refers to "standard".**
[ ]	White Balance	[ ] Auto WB [ ] Sunny [ ] Cloudy [ ] Tungsten [ ] Fluorescent	Sets the white balance when recording subjects under specific lighting conditions. – Auto WB: Automatically adjust the white balance. – Sunny: Suitable for bright daylight conditions. – Cloudy: Suitable for cloudy, twilight, or shady conditions. – Tungsten: Suitable for subjects lit by tungsten (incandescent) lighting. – Fluorescent: Suitable for subjects lit by fluorescent lighting.
[ ]	Effect	[ ] Normal [ ] B & W [ ] Sepia [ ] Vivid	Sets the color of the video clip that will be recorded. – Normal: Standard RGB color settings suitable for general recording. – B & W: Black and white video clips with shades of grey. – Sepia: Produces a warm, old-fashioned style of video clips, in which the colors are more brown and orange. – Vivid: Produces sharper and more vibrant colors.
[ ]	Timer REC	[SET] Set	Allows you to set recording session in advance. For more information on setting Timer Recording, refer to 3.2.3 "Timer Recording" on page 17.

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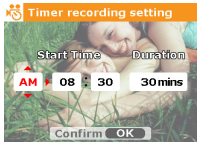
3.2.3 Timer Recording

With the special “Timer Recording” feature, you can set recording session in advance, by following the steps below.



1. In Movie Mode, press the [MENU] button to access the menu, and then scroll to [Timer REC].
2. Press [SET].
   The [Timer recording setting] screen is displayed.
3. Press the [ ]/[ ] buttons to set each item. Press the [ ]/[ ] buttons to move to the next item.
4. After you set the Start Time and Duration, press the **OK** button to confirm.
5. The [Timer Recording Standby] screen is displayed. You can press the zoom key to adjust the distance.
   - To activate the setting, press the shutter.
   - To exit, press the [ ] button.
6. The [Timer Recording] screen is displayed. The camera enters the Standby mode and shows the information of your session. If you wish to cancel the action, press the shutter.
7. When the recording session begins, the camera enters the Recording mode. After the recording session is complete, the camera will power off automatically.

3.3 Playback Mode

In Playback Mode, you can view, magnify, resize, trim, delete images, play video clips, record a voice memo, or run a slide show. This mode also provides a thumbnail image display, allowing you to quickly search for the desired image.

1. Press the [ ] button to enter Playback Mode.
2. Use the [ ]/[ ] buttons to select the desired images.
   - To view the previous image, press the [ ] button.
   - To view the next image, press the [ ] button.

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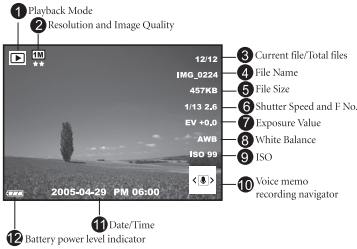
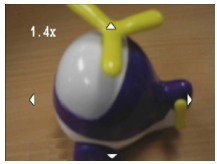
3.3.1 Playback Mode LCD Monitor Information (Image)



3.3.2 Viewing Images

3.3.2.1 Magnifying Images

While reviewing your images, you may enlarge a selected portion of an image. This magnification allows you to view the details of the image. The camera provides 4X magnification during playback.



1. Set the zoom ratio by adjusting the zoom key.
   - To zoom in, adjust the zoom key to the right.
   - To zoom out, adjust the zoom key to the left.
   - The magnification factor is displayed on the LCD monitor.
2. To view a different portion of the images, press the [ ]/[ ]/[ ]/[ ] buttons to adjust the display area.
   You will see a frame with a square box inside. The frame indicates the entire image, while the square box shows the location of the currently enlarged area.
3. To return to the regular display, adjust the zoom key to the left until the normal image (1X magnification) appears on the screen. Or, you can press the [MENU] button to exit directly.

- **If there is no image stored in the internal memory or memory card, a [No File!] message will appear on the LCD monitor.**
- **Pressing the [ ] button while playing back images changes the LCD display in the sequence of: OSD Normal → Detailed Info. → Info. Off.**

3.3.2.2 Thumbnail Display (Index Playback)

This function allows you to view nine thumbnail images on the LCD monitor simultaneously, so that you can search for the image you need easily.

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1. Adjust the zoom key to the left.
   Nine thumbnail images are displayed simultaneously.
2. Use the [ ]/[ ]/[ ]/[ ] buttons to select the image to be displayed at the regular size, and then press the **OK** button to display the selected image in the full screen mode.

3.3.2.3 Voice Memo

Adding a voice memo is a useful way of adding notes and reminders to images.

1. In Playback Mode, select an image. The [ ] icon is displayed on the bottom right corner of the LCD monitor.
2. Press the **OK** button to start recording. The time elapsed is displayed on the LCD monitor. You are allowed to add a voice memo up to 20 seconds for each image.
3. Press the **OK** button again to stop recording.
4. Press the **OK** button again to play the voice memo.
5. If you wish to remove the voice memo, press the [ ] button, choose [Delete Voice], and then press the **OK** button.

3.3.3 Deleting Files

When you are not satisfied with the images, video clips or voice memos, you can choose to delete them one by one or all at once. Please note that the deleted files cannot be recovered.

1. In Playback Mode, press the [ ] button to delete files.
   - To delete the current unwanted file, choose [Delete One] and press the **OK** button.
   - To delete all the files, choose [Delete All] and press the **OK** button.
   - To delete an image which contains a voice memo, choose [Delete Voice] and press the **OK** button.
   - To cancel the action, choose [Exit].

☞ • **Protected files cannot be deleted.**

3.3.4 Playback Mode Menu Settings

3.3.4.1 Playback Mode Menu

1. Press the [ ] button to enter Playback Mode.
2. Press the [MENU] button to access the menu, and then use the [ ]/[ ] buttons to select the menu settings you want to change.
3. Use the [ ]/[ ] buttons to select the desired item in the menu, and then press the **OK** button.

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4. To exit from the menu, press the [MENU] button.

Icon	Item	Option	Functional Description
[ ]	Protect	[SET]	Sets the files to the read-only status to prevent them from being erased by mistake. To protect your files, follow the steps below. 1. Press [SET] when the [Protect] menu is displayed. 2. You can choose to protect or unprotect the files as follows. – Choose [Protect One] and press the **OK** button to protect the current selected file. If you wish to cancel protecting the current file, choose [Unprotect One] and press the **OK** button. – Choose [Protect All] and press the **OK** button to protect all the files. If you wish to cancel protecting all the files, choose [Unprotect All] and press the **OK** button. – To quit the menu, press [Exit]. **An icon will be displayed if the file is protected.**
[ ]	Printer	[SET]	Allows you to connect the camera directly to a PictBridge compliant printer, so that images can be printed directly without being transferred to your computer. For more information, refer to 4.3 “Printer Mode” on page 26.
[ ]	Trim	[SET]	Allows you to trim a portion of a captured image. To trim a captured image, follow the steps below. 1. In Playback Mode, choose Trim and then press [SET]. 2. Use the zoom key and [ ]/[ ]/[ ]/[ ] buttons to move to the portion you want. 3. Press the **OK** button. **A trimmed image will be saved as another file and has a smaller size.**
[ ]	Slideshow	[ ] 1 sec. [ ] 3 sec. [ ] 5 sec.	This function enables you to set the time interval while playing back your images automatically in sequential order as a slide show. This is a very useful and entertaining feature for reviewing captured images and for presentations. Once you select an option, the slideshow will begin immediately. If you wish to stop, just press the **OK** button.

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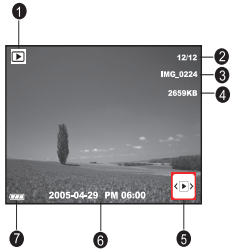
Icon	Item	Option	Functional Description
[ ]	Resize	[3M] 2048 x 1536 [2M] 1600 x 1200 [1M] 1280 x 960 [VGA] 640 x 480	Allows you to change the size of a captured image. To resize a captured image, follow the steps below. 1. In Playback Mode, choose Resize and then select the desired option. 2. Press the **OK** button. **A resized image will be saved as another file and has a smaller size.**

3.3.5 Playback Mode LCD Monitor Information (Video)

1. Playback Mode
2. Current file/Total files
3. File Name
4. File Size
5. Playback navigator
6. Date/Time
7. Battery power level indicator



3.3.6 Playing Back Video Clips

In Playback Mode, use the playback navigator on the bottom right corner of the LCD monitor to control the playback of video clips.

- Press the **OK** button to start playing back a video clip.
- To pause or resume the video playback, press the **OK** button.
- To stop the video playback, press the [ ] button.
- To play back the video clip with slow motion, press the [ ] button.
- To start the fast forward video playback, press the [ ] button.
- To start the fast reverse video playback, press the [ ] button.

• The zoom function cannot be activated while playing back video clips.

3.4 Setup Mode

Whatever mode you are currently using, Setup Mode can always be accessed. Select your preferences for the camera with this mode.

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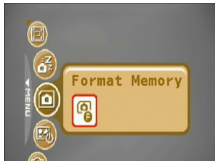
3.4.1 Setup Mode Menu

1. In whichever mode (Snapshot Mode, Movie Mode, or Playback Mode), press the [MENU] button (Step **A**).
2. Press the [▼] button **twice** to enter Setup Mode (Step **B** and Step **C**).
3. Use the [◀]/[⏲/🗑] buttons to select the menu settings you want to change.
4. Use the [▼]/[⚡] buttons to select the desired item in the menu, and then press the **OK** button.
5. To exit from the menu, press the [▼] button **twice**.

A

B

C



Icon	Item	Option	Functional Description
[ ]	Memory	[ ] Format Memory	– [Format Memory]: This option is displayed when there is no SD memory card loaded. It erases all data and reformats the internal memory. Protected files are also erased.
[ ]	Memory	[ ] Copy to Card [ ] Format Card	– [Copy to Card]: This option is displayed when there is an SD memory card loaded. You may copy files from the camera's internal memory to a loaded SD memory card. – [Format Card]: This option is displayed when there is an SD memory card loaded. It erases all the data on the SD memory card and reformats the card. Protected files are also erased. An SD memory card cannot be formatted if it is write-protected. ☞ **This menu is only available when an SD memory card has been inserted.**

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Icon	Item	Option	Functional Description
[ ]	Startup Image	[SET]	To set a startup image that is displayed every time you power on the camera, follow the steps below. 1. Select [SET], and then you will be prompted to select a startup image. Use the [ ]/[ ]/[ ]/[ ] buttons to select the image you prefer. 2. If you are not satisfied with the pre-installed images, you may move to the bottom right corner of the LCD monitor to customize your startup image by selecting the images you like. 3. After the selection is done, press the **OK** button to confirm, and then press the [MENU] to exit.
[ ]	Power Save	[OFF] [30s] [1min] [3min]	If the camera is idle for a certain period of time while the camera is powered on, it will switch to power-saving state according to your settings. If the camera is in power-saving state, re-activate it by pressing any button. – Off/30 sec./1 min./3 min. **If the camera is idle for 5 minutes, the camera will power off automatically.**
[ ]	QuickView	[ON] [OFF]	Allows you to get a quick preview immediately after an image is captured. The preview shows briefly and then you may continue to capture the next image. – On/Off
[ ]	Digital Zoom	[ON] [OFF]	Allows you to activate or deactivate Digital Zoom according to your preferences. – On/Off
[ ]	Volume		Allows you to adjust the volume of the video clips or voice memos. You may set the volume level with the [ ]/[ ] buttons.
[ ]	System Sound	[ON] [OFF]	Allows you to toggle system sound effects on or off, such as the beep when pressing or scrolling.
[ ]	LCD Brightness	[ ] Normal [ ] Bright	Allows you to set the brightness of the LCD monitor to Normal or Bright.

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Icon	Item	Option	Functional Description
[ ]	Date/Time		Allows you to adjust the camera's date and time. 1. Use the [ ]/[ ] buttons to select the item you want to change. 2. Press the **OK** button and then use the [ ]/[ ] buttons to adjust the setting. **Setting the date and time is important as the information is stored with the images you take, and is used if you have turned on Date Stamp. Set the date and time before using the camera for the first time.**
[ ]	Date Format	[YMD] [MDY] [DMY]	Allows you to select the date format used for the [Date Stamp] feature. – [YMD] Year - Month - Date – [MDY] Month - Date - Year – [DMY] Date - Month - Year
[ ]	Video Out	[NTSC] [PAL]	The camera's TV out port provides video output for viewing images or video clips on a standard TV screen. Set the video output mode to either NTSC or PAL. Refer to your local authorities for information on whether NTSC or PAL is used in your country/region.
[ ]	Language		Allows you to set the language that is displayed on the LCD monitor.
[ ]	Reset	[ ] File No. Reset [ ] Default	– [File No. Reset]: The camera automatically assigns incrementing numbers to the file names of all images, video clips, and voice memos that you record. You can choose to reset the auto numbering to start from 1. – [Default]: Selecting this function returns all camera settings back to factory preset values.
[ ]	Firmware Ver.		Displays the installed firmware version number.

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4 PC Dependent Features

4.1 Bundled Software

The camera is supplied with the following software. To install the software, refer to the information supplied with respective CDs.

Ulead Photo Express	Ulead® Photo Express™ 5.0 SE is a complete photo project software for digital images. Acquire photos effortlessly from digital cameras or scanners. Edit and enhance images using easy-to-use editing tools and cool photographic filters and effects. Assemble creative photo projects and share results via e-mail and multiple print options.
Ulead Photo Explorer	Ulead® Photo Explorer™ 8.0 SE Basic provides an efficient way to transfer, browse, modify and distribute digital media. It is an all-in-one tool for owners of digital cameras, webcams, DV camcorders, scanners, or for anyone who strives to effectively handle digital media.
Ulead VideoStudio	Ulead® VideoStudio™ 8 SE VCD is home video editing software that makes editing movies as fun as shooting them. Users can make a movie in three easy steps using the new Movie Wizard mode. Share finished projects on VCD, tape, the web, and mobile devices.

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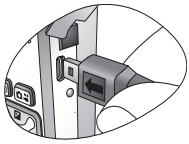
4.2 USB Mode



1. Connect the end of the smaller plug of the USB cable to the camera.
2. Connect the other end of the USB cable to an available USB port on your computer.
3. Turn on the camera.
   The USB screen is displayed.
4. A “Removable Disk” icon appears in “My Computer.” Click this icon to access your images or video clips.

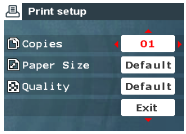
• When connecting to a computer, it is necessary to install a battery.

4.3 Printer Mode

If a printer that supports PictBridge is available, images can be printed without using a computer by connecting the camera directly to a PictBridge compliant printer.

Connecting the Camera to a PictBridge compliant Printer

1. In Playback Mode, press the [MENU] button and scroll to Printer.
2. Select [SET] and then you will be prompted to connect a USB cable to the camera and the PictBridge compliant printer.
   - To establish the connection, connect a USB cable.
   - To cancel, press the [MENU] button.
3. When the connection is established, you will be asked to select [Print One], [Print All], or [Print Index]. Select the desired option and then press the **OK** button.
4. [Setup], [Print], and [Exit] options will be displayed on the bottom of the LCD monitor.
   - If you select [Setup], [Print setup] screen will be displayed. You may set [Copies], [Size], and [Quality], if desired.
   - If you are satisfied with the settings, select [Print] to proceed.
   - If you want to cancel, select [Exit].



• The functions described above may differ due to the design of the printer you connect to.

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5 Troubleshooting

Refer to the symptoms and solutions listed below before shipping your camera for service. If the problem persists, contact your local reseller or service center.

Symptom	Cause	Solution
The camera cannot be powered up.	There is no battery or the battery is not inserted correctly.	Insert the battery correctly.
	The battery has no power.	Recharge the battery.
The battery power is draining quickly.	The external temperature is extremely low.	—
	Many shots are being captured in dark places, requiring a flash.	—
	The battery was not fully charged. The battery has not been used for an extended period of time after being charged.	Fully charge the battery and discharge it for at least one complete cycle before use.
The battery or camera is warm.	The camera or flash was used continuously over a long period of time.	—
The flash does not fire. The flash does not recharge.	The camera flash is turned off.	Set the flash to Auto Flash.
	The light source is sufficient.	—
Even though the flash fired, the image is dark.	The distance to the subject is greater than the flash's effective range.	Get closer to the subject and shoot.
The image is too bright or too dark.	The exposure is excessive or inadequate.	Reset exposure compensation.
I cannot format a memory card.	The memory card is write-protected.	Remove the write protection.
	End of the memory card life.	Insert a new memory card.
I cannot download images.	The free space on the hard disk of your computer is insufficient.	Ensure that the hard disk has enough space for running Windows and that the drive for loading image files has free space equal to or greater than the memory card in the camera.
	There is no power being supplied to the camera.	Recharge the battery.

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Symptom	Cause	Solution
The camera does not shoot even when pressing the shutter button.	The battery is running low.	Recharge the battery.
	The camera is not in Shooting Mode.	Switch to Shooting Mode.
	The shutter button was not pressed all the way down.	Press the shutter button all the way down.
	The internal memory or memory card does not have any free space.	Load a new card or delete unwanted files.
	The flash is recharging.	Wait until the flash mode icon, indicated on the screen, stops flashing.
	The camera does not recognize the memory card.	Format the memory card before the initial use or before using with another camera.
I cannot print images with PictBridge compliant printers.	The camera is connected to the printer when the camera is powered off.	Please turn on the camera, select [Printer] and then connect to the printer.
A “File Full” message appears and the camera cannot shoot.	Number of files and/or folders may have exceeded the system limit.	Back up existing data, and then remove some or all of these files and folders. When you start shooting later, the system will automatically create folders.

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Specifications

Image Sensor	1/2.5-inch CCD
	Effective Pixels: 6.1 Mega pixels
LCD Display	2.4" TFT LCD
Lens	Focal Length: f = 5.8 - 17.4 mm (35 mm - 105 mm; 35 mm Equivalent)
	F No.: F2.6/F4.8
Focusing	TTL Auto Focus
	Range: Macro: 6 cm (Zoom 4), Normal: 40 cm ~ infinity
Shutter	Mechanical shutter: Up to 1/2000 sec.
Shooting Mode	Auto/Manual/Portrait/Landscape/Night/Sport/Backlight
Flash	Modes: Auto/Forced flash/Red-eye reduction/Flash off/Slow Sync
	Range: 0.5 ~ 2.0m
Self-timer	10 sec, 2 sec
Exposure	Compensation: ±2 EV (1/3 EV/step)
ISO	Auto/80/160/320/400
White Balance	Auto/Sunny/Cloudy/Tungsten/Fluorescent
File Format	Still Image: JPEG format (EXIF2.2), DCF Image Size: 2816 x 2112, 2048 x 1536, 1600 x 1200, 1280 x 960, 640 x 480 pixels
	Movie Clips: AVI (Motion JPEG) format with Continuous recording. Movie Size: 640 x 480, 320 x 240, 160 x 128 pixels (30 fps)
Storage	Built-in memory: 18MB/SD memory card compatible.
Image Play	Single image/AVI play/Thumbnails/Slide show
Interface	Digital output: USB 2.0 high-speed compatible Audio/Video output (NTSC/PAL)
Power Source	Rechargeable Lithium-ion Battery (1230mAh)/AC adapter
Dimensions (W x H x D)	89 x 58.5 x 23.7 mm
Weight	Approx. 135+/-10 g (w/o battery, SD memory card)

System Requirements (For Windows)	
* Pentium MMX or higher CPU * 64 MB RAM * CD-ROM drive	* Windows XP/Me/2000 * 100 MB free hard disk space * Available USB port

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7 Service Information

Technical Support

If you have any problem or question regarding the camera, you can visit the following web site for further assistance:

http://support.BenQ.com

For free driver updates, product information and news releases, visit the following web site:

http://www.BenQ.com

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